

ABSTRAT

The present invention relates to a method for preparing self-assembled silicon nano-tube by hydrothermal method. In the method, water is used as solvent, and non-toxic silicon oxide is added to the water, then mixture of the water and silicon oxide is fed into a sealed reaction kettle while stirring, the mixture is kept at a certain temperature and a certain pressure for a period of time; the weight of the said silicon oxide is not more than 10% of weight of the solvent, and a magnetic stirrer is used for stirring. The present invention completely utilizes non-toxic raw materials, and the materials and preparation process do not pollute the environment, so the method satisfies the development trend of modern industry.

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